

Tri-Service MSRR Architecture

MSRR BOD
11 August 1999

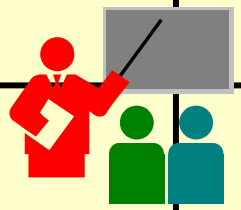
Tri-Service MSRR Principles

User Interface

- Inexpensive to develop and maintain
- Intuitive and easy to use based on input from users
- Responsive to user requirements - features/functions evolved from user input
- Data is public, no passwords required to browse (unclassified system)

Resource Metadata Management

- Maintenance of resources and metadata supported by Sponsor (non-local owner)
- Promotes re-use of registered material
- Extendable – allows potential, perhaps unknown data types (e.g., facilities)
- Real time system administrative control



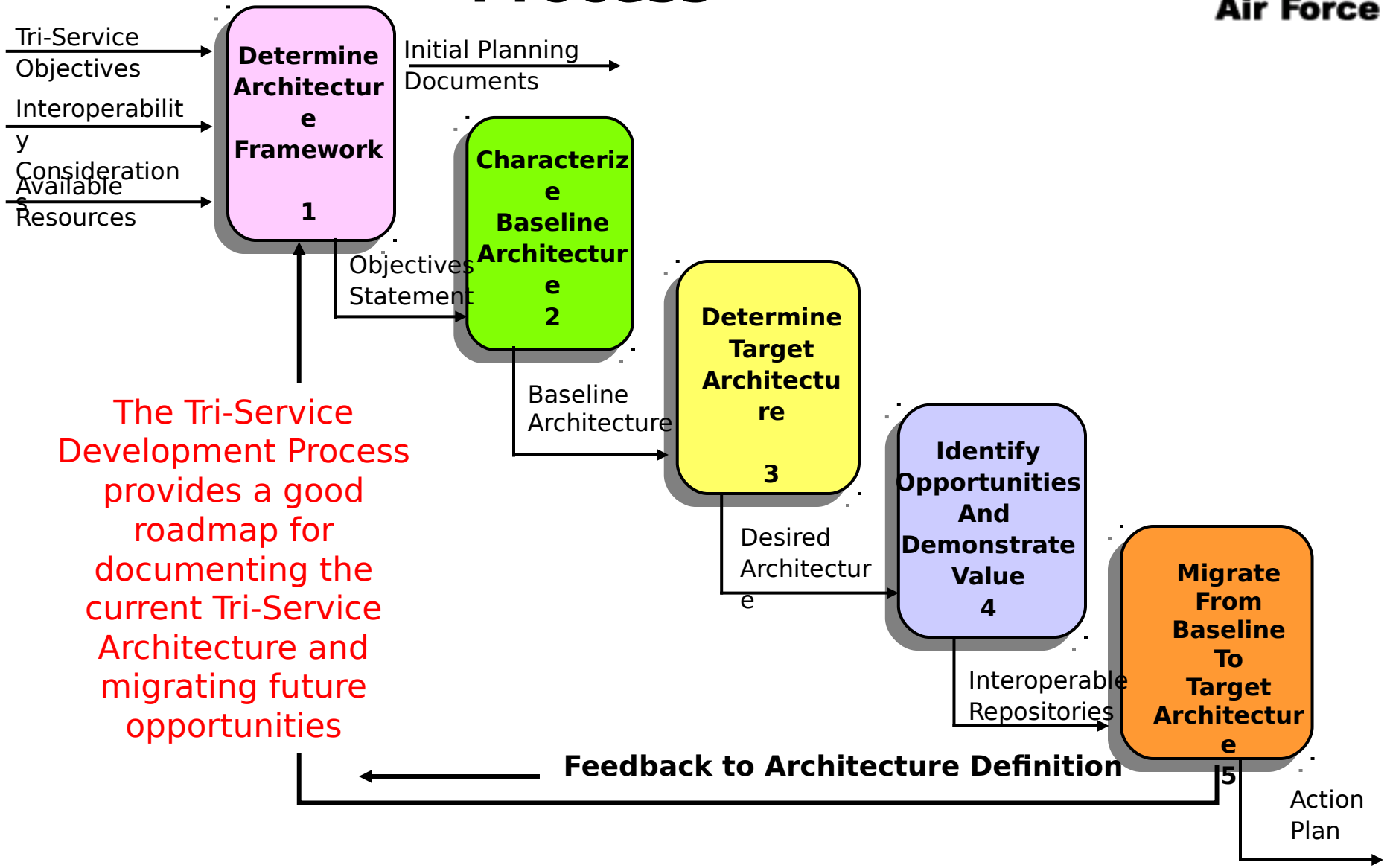
Information Transfer

- Cataloging of metadata with pointers versus the physical resource
- Local policies respected -- minimum intrusion by higher HQ
- Interoperable with Service and non-Service M&S systems (minimal intrusion)
- Permits varying underlying data structures run by same software

Resource Metadata Quality

- Limited number of “nodes”
- Scalable for current small numbers but also future large numbers (naming schemes, SQL, etc)
- "Quality" data approved via established although variable staffing
- Automated checking for data currency with frequent email notifications

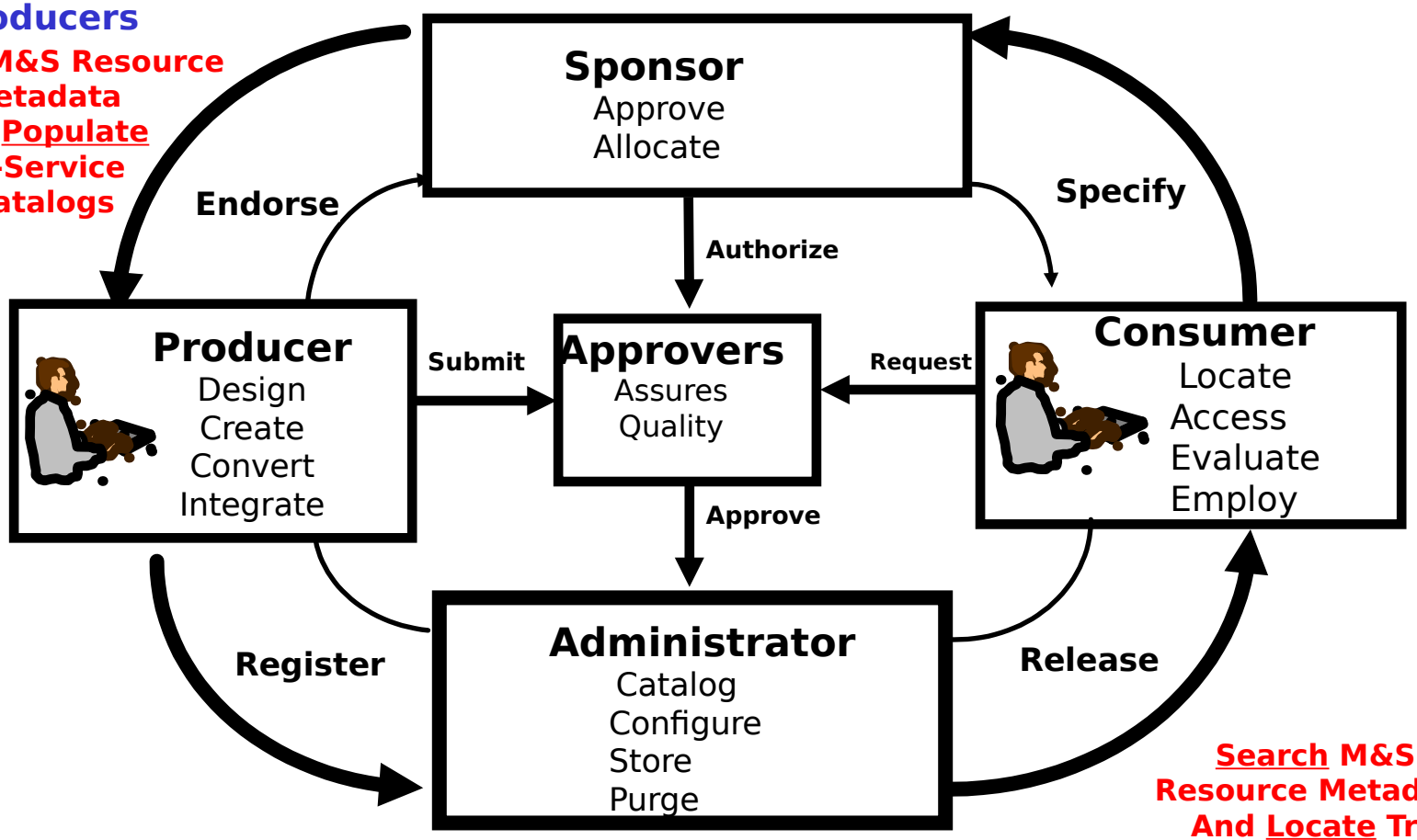
Tri-Service MSRR Supports A Standards Based Architecture Process



Tri-Service MSRR Supports the Data Engineering Framework

Support to Resource Producers

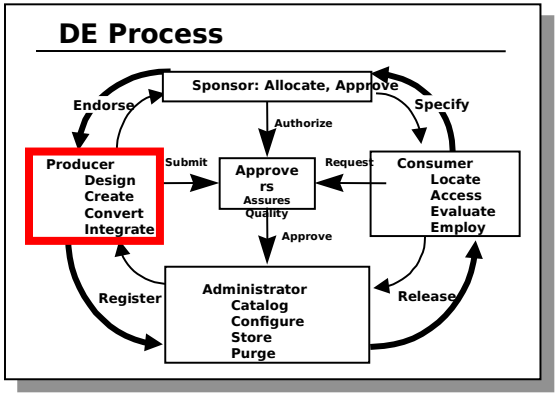
Gather M&S Resource Metadata And Populate Tri-Service Catalogs



Search M&S Resource Metadata And Locate Tri-Service Resources

Support to Resource Consumers

Tri-Service MSRR Supports M&S Resource Producers and Consumers

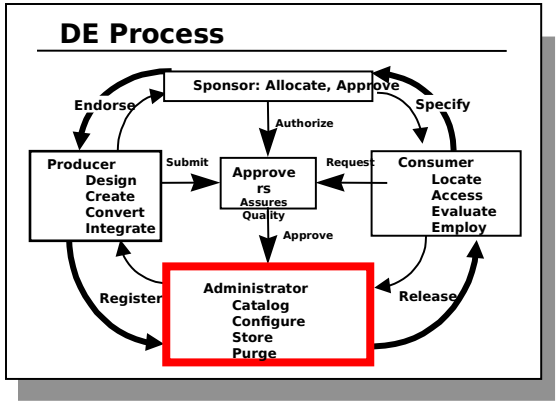


***Goal*: Populate Service Catalogs with M&S Resources**

Online Registration Data Entry Software Modules for Resource and User registration

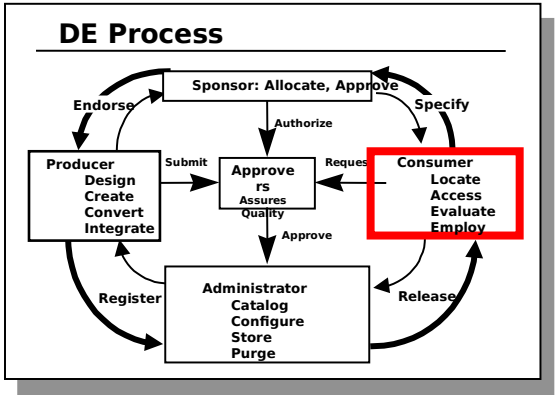
***Goal*: Administer Service Catalogs**

Resource Owner Software Editing Modules



***Goal*: Provide M&S Consumers with M&S Resources**

Tri-Service MSRRs Search Multiple Repositories



Tri-Service MSRR Interoperability Provides Consumers Wide Range of M&S Resources

Interoperability is

A transparent, automated method of sharing approved, credible M&S resources across independent, similar but disparate systems

Service	Models and Simulations	Data Sources	References	Tools/ Utilities	Related Web Sites	Registered Users	
Navy	1042	90	4	4	11	339	Tri-Services Steering Group
Air Force	106	7	180	21	64	456	
Army	766	101	21	3	33	167	
BMDO	15	N/A	N/A	N/A	N/A	N/A	Other Inter-operable Sites

Search Example - Navy M&S Catalog



- Main Menu
- What's New
- Browse
- Search
- Register
- MSRR Nodes
- Help
- Admin

Standard Search

Select or de-select the sites and resources that you would like to search.

Search for: [ ] Search

Sites:

- [x] Navy M&S Catalog *(local)*
- [x] AFMSRR
- [x] Army MSRR
- [x] BMDO MSRR

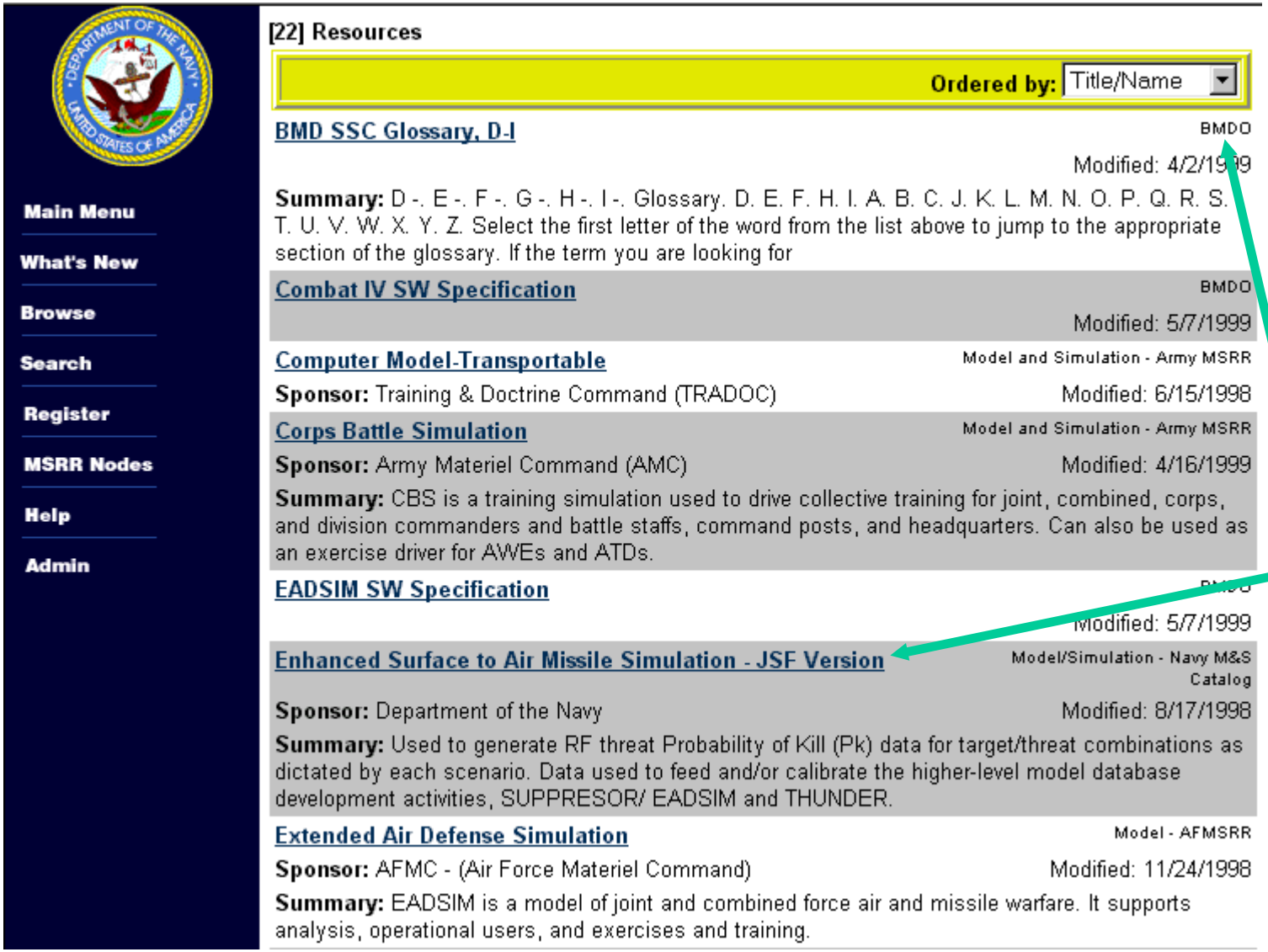
Resources:

- [x] All
- [ ] Data Sources
- [ ] Models and Simulations
- [ ] Organizations
- [ ] Points of Contact
- [ ] References
- [ ] Related Sites
- [ ] Support Tools and Utilities

If you choose the sites below, only a text search of their site will be performed.

- [ ] MEL
- [ ] DMSO MSRR *(100 hit limit)*
- [ ] ADS Library

Search Example - Results



Search results are integrated into one list.

Originating MSRR site appears beside entry.

Selecting the title connects you to a MSRR site

Input on Requested DMSO MSRR BOD Agenda Topics

- **Classified /unclassified requirements**
  - **Army: Unclassified**
  - **Air Force: Unclassified, Classified**
  - **Navy: Unclassified, Classified**
  - **BMDO: Unclassified, Classified**
- **Security – Passwords**
  - **Not required for browsing, only submission**
- **Node**
  - **Topic to be discussed further by BOD**
    - **TSSG feels “nodes” are of a limited number**
    - **TSSG feels “nodes” have quality, approved resources of use to M&S Community**
- **Recommendation**
  - **No formal requirement for interoperability has been identified by the BOD. The BOD should formulate the MSRR interoperability definition / requirement and task the TST for investigation as necessary.**